

# SEQUIVITY®

## RNA PARTICLE TECHNOLOGY

### REVOLUTIONIZING VACCINES

Certain disease pathogens are constantly changing and evolving, and that's why Merck Animal Health is addressing animal health with an innovative, game-changing approach.

### SEQUIVITY® RNA PARTICLE TECHNOLOGY

Sequivity® RNA Particle Technology vaccines offer a safe, precise and flexible solution for today's herd health challenges.

#### WHAT IS SEQUIVITY® RNA PARTICLE TECHNOLOGY?

##### PRECISE

Sequivity takes a targeted gene sequence from a pathogen to create a herd-specific vaccine solution in a matter of weeks.

##### SAFE

Sequivity RNA particles are designed to deliver information to the immune system and do not replicate so they can't cause disease or shed. Only an electronic gene sequence will enter our production facilities, so biosecurity is maximized.

##### FLEXIBLE

Sequivity RNA Particle Technology allows producers and veterinarians to target farm specific strains with herd specific vaccines.

#### AVAILABLE VACCINES USING THIS TECHNOLOGY

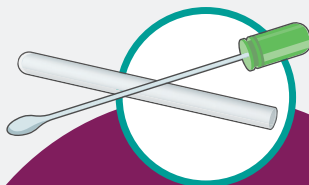
##### RNA Particle

Swine Influenza  
Vaccine (SI)  
Licensed

Rotavirus Vaccine  
(RV)  
Licensed

Porcine Circovirus  
type 3 Vaccine  
(PCV3)  
Licensed

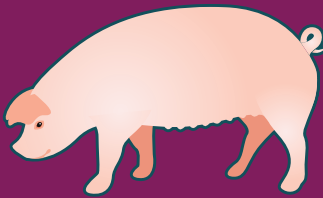
#### HOW IT'S MADE



**1.** A sample is collected and sent to the lab by a veterinarian.



**2.** Following PCR diagnostic and sequencing, the GOI (Gene of Interest) sequence is sent electronically.



**3.** The GOI is synthesized from the sequence and inserted into the RNA production platform.



**4.** After incubation, RNA particles are harvested, purified, and formulated into the final vaccine.

**Find out more from your veterinarian or Merck Animal Health representative today.**

Always read and follow label instructions to ensure the product is suitable for the animal to be vaccinated.



INNOVATION STARTS HERE

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